

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A resistor comprising:

a substrate having a width shorter than a length of said substrate;

a pair of electrodes disposed on said substrate, said pair of electrodes being disposed on both end portions of said substrate along a substantial portion of said width;

a resistor element disposed between said pair of electrodes, said resistor element including:

side sections, each of said side sections connected to each of said pair of electrodes along a substantial portion of a length of said pair of electrodes along said width, and

~~an~~ a single S-shaped section disposed between said side sections,

a trimming portion formed within at least one of said side sections,

a space ~~defined by~~ located between said S-shaped section and said side sections,

wherein,

said S-shaped section being away from said trimming portion, and

highest levels of said substrate are lower at said trimming portion than at said space.

2. (Previously Presented) The resistor of claim 1, wherein a width of at least one of said side sections of said resistor is wider than a width of said S-shaped section.

3. (Cancelled)

4. (Previously Presented) The resistor of claim 1, wherein thickness of said side sections of said resistor element are twice as thick as said S-shaped section.

5. (Previously Presented) The resistor of claim 3, wherein a width of said side section of said resistor element where the side section extends to said S-shape section is wider than a width of said S-shaped section.

6. (Currently Amended) A method of manufacturing a resistor comprising the steps of:

forming a pair of electrodes on a substrate having a width shorter than a length of said substrate; and

forming a resistor element ~~by printing between said pair of electrodes, said resistor element comprising i) side sections connected to each of said pair of electrodes along a substantial portion of a length of said pair of electrodes along a width, of said substrate and ii) not more than a single S-shaped section disposed between said side sections, said S-shaped section being free of a trimming portion; and a space between said side sections and said S-shaped section; and~~

trimming at least one of said side sections to form a trimming portion to adjust a resistance ~~wherein, during trimming, a portion of said substrate is removed, wherein said S-shaped section is away from said trimming portion.~~

7-8. (Cancelled)

9. (Previously Presented) The resistor of claim 1, wherein said side sections are rectangular.

10. (Previously Presented) The method of manufacturing a resistor of claim 6, wherein said side sections are rectangular.

11. (Previously Presented) A resistor comprising:

a substrate having a width shorter than a length of said substrate;

a pair of electrodes disposed on said substrate, said pair of electrodes being disposed on both end portions of said substrate along said width;

a resistor element situated between said pair of electrodes, said resistor element including:

a pair of side sections, each of said side sections connected to a respective one of said pair of electrodes along a substantial portion of a length of said pair of electrodes along said width, and

an S-shaped section situated between said pair of side sections;

a trimming portion formed within at least one of said side sections;

a space defined by said S-shaped section and said side sections;

highest levels of said substrate are lower at said trimming portion than at said space;

wherein a width of said S-shaped section along said length of said substrate is less than a width of each of said side sections along said length of said substrate.

12. (Previously Presented) The resistor of claim 11, wherein each of said side section includes a respective trimming groove formed therein.

13. (Previously Presented) The resistor of claim 11, wherein said S-shaped section is free of trimming grooves.

14. (Previously Presented) The resistor of claim 12, wherein said S-shaped section is free of trimming grooves

15. - 16. (Cancelled).

17. (Previously Presented) A resistor according to claim 1, wherein one of said trimming portions is closer to one of said electrodes than to said space.

18. (Previously Presented) A resistor comprising:

a substrate having a width shorter than a length of said substrate;

a pair of electrodes disposed on said substrate, said pair of electrodes being disposed on both end portions of said substrate along a substantial portion of said width;

a resistor element disposed between said pair of electrodes, said resistor element including:

side sections, each of said side sections connected to each of said pair of electrodes along a substantial portion of a length of said pair of electrodes along said width, and

an S-shaped section disposed between said side sections,

trimming portions formed within said side sections,

a space defined by said S-shaped section wherein said S-shaped section loops about said space,

said space between said trimming portions,

highest levels of said substrate are lower at said trimming portion than at said space.

19. (Previously Presented) A method of manufacturing a resistor comprising the steps

of:

forming a pair of electrodes on a substrate having a width shorter than a length of said substrate; and

forming a resistor element by printing between said pair of electrodes to form said resistor element comprising i) side sections connected to each of said pair of electrodes along a substantial portion of a length of said pair of electrodes along a width of said substrate and ii) an S-shaped section disposed between said side sections, said S-shaped section looping around a space; and

trimming said side sections to adjust a resistance so that said space is between areas where said trimming occurs wherein, during trimming, a portion of said substrate is removed so that highest levels of said substrate are lower at said trimming portion than at said space.

20. (Previously Presented) A resistor comprising:

a substrate having a width shorter than a length of said substrate;

a pair of electrodes disposed on said substrate, said pair of electrodes being disposed on both end portions of said substrate along said width;

a resistor element situated between said pair of electrodes, said resistor element including:

a pair of side sections, each of said side sections connected to a respective one of said pair of electrodes along a substantial portion of a length of said pair of electrodes along said width, and

an S-shaped section situated between said pair of side sections,

trimming portions formed within said side sections,

a space defined by said S-shaped section wherein said S-shaped section loops about said space,

said space between said trimming portions,

highest levels of said substrate are lower at said trimming portion than at said space.

wherein a width of said S-shaped section along said length of said substrate is less than a width of each of said side sections along said length of said substrate.

21. (Previously Presented) The resistor of claim 1, wherein said substantial portion of said length is a majority of said length.

22. (Previously Presented) The method of claim 6, wherein said substantial portion of said length is a majority of said length.

23. (Previously Presented) The resistor of claim 11, wherein said substantial portion of said length is a majority of said length.